yumeng ma

HUMAN-Al Interaction · Accessibility · Visual & social Computing

■ yumengma@uw.edu | ↑ yumengma.com | □ momentine

Education _____

University of Washington

Seattle, WA

INCOMING PHD IN COMPUTER SCIENCE AND ENGINEERING

Brown University Providence, RI

Sc.M in Computer Science (Human-Computer Interaction)

2022 - 2024

GPA: 4.0 / 4.0

Coursework: UI/UX, Designing Humanity Centered Technology, HCI Seminar, Collaborative Robotics, Computer Graphics

Arizona State University

B.S. IN COMPUTER SCIENCE AND PSYCHOLOGY

2019 - 2022

Barrett Honors College

GPA: 4.0 / 4.0 Summa Cum Laude

Thesis: "Assessing Exhibit Interaction through Bridging the Connections Between Biometrics and Traditional Tools"

Publications

CONFERENCE PROCEEDINGS

Zainab Iftikhar, **Yumeng Ma**, and Jeff Huang. 2023. "Together but not together": Evaluating Typing Indicators for Interaction-Rich Communication. In Proceedings of the 2023 Conference on Human Factors in Computing Systems (CHI '23). Paper

Ian Gonsher, **Yumeng Ma**, Ivan Pineda-Dominguez, Matthew Lee, and Yuxin. 2023. The Mixed Reality Passthrough Window: Rethinking the Laptop Videoconferencing Experience. Human Interaction and Emerging Technologies (IHIET-AI 2023): Artificial Intelligence and Future Applications. *Paper*

SHORT PAPERS & EXTENDED ABSTRACTS

Yumeng Ma* and Jiahao Ren*. 2023. ProactiveAgent: Personalized Context-Aware Reminder System. In The 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct). *Paper*

Experience _____

Brown Department of Neuroscience

Providence, RI

COMPUTER VISION RESEARCH ASSISTANT

2023 - 2024

• Built a visual prosthesis system for blind and low vision users to locate everyday objects and identify surrounding text.

Brown + NASA Providence, RI

MOBILE DEVELOPER RESEARCH ASSISTANT

2023 - 2024

• Developed and led the final integration of a sound and haptic enabled visualization cross-platform mobile app to encourage blind and low vision individuals to explore and learn about space.

Civilience Remote

PRODUCT MANAGER & UI/UX DESIGNER INTERN | LIAISON BETWEEN FRONTEND AND UIUX

2023

• Led the UI/UX team to design a web-based app with interactive health data visualizations and create reusable components for the design system to maintain consistency throughout the product.

^{*} equal contribution

Brown Department of Engineering

Providence, RI

DESIGN RESEARCH ASSISTANT

2022 - 2023

• Introduced a new paradigm for the integration of AR into laptop and desktop displays to enable local users to interact more easily and seamlessly with remote users during videoconferencing sessions.

UCLA HCI Lab

Los Angeles, CA

HCI RESEARCH INTERN

2023

• Led the development of a proactive reminder system that takes in user context, history, and spoken interactions by leveraging LLMs and personal agents.

Brown HCI Lab Providence, RI

DISTRIBUTED RESEARCH EXPERIENCES FOR UNDERGRADUATES INTERN

2022

• Designed novel typing indicators and found that they enhance user co-presence in written communication through in depth surveys and interviews.

ASU SoLET Lab

Tempe, AZ

PSYCHOLOGY RESEARCH ASSISTANT

2022

Tempe, AZ

 Conducted testing and evaluation of tutoring systems to optimize learning and educational practices for underrepresented groups.

NASA Psyche Mission

Tempe, AZ

COLLABORATOR 2021-2022

• Developed a web app that allows users to interact with the Psyche Spacecraft model and led user studies with biometric data analysis that showed the app increased public engagement.

Awards, Fellowships, & Grants -

2024 NSF Graduate Research Fellowship, NSF

2024 Paul G. Allen School Diamond Fellowship, University of Washington

2023 Tapia Celebration of Diversity in Computing Conference Scholarship, Brown University

2019 - 2023 Microsoft DisAbility Scholarship, Microsoft

2022 Google CS Research Mentorship Program Fellowship, Google

2022 Virtual Grace Hopper Celebration Scholarship, AccessComputing

Teaching.

Spring '22 Information Assurance, TA for Adam Doupe and Tiffany Bao, ASU

Extracurricular & Work Activities ___

2021 - Present Member, AccessComputing

2022 - 2024 Master's Representative, Brown University CS Diversity Committee Providence, RI
2023 Student Volunteer, UIST San Francisco, CA

Microsoft Support / Xbox Advocate Contract, Microsoft

Skills_

Programming Python, C/C++, C#, Java, Unix/Linux, ROS, APIs, Git

Web/Mobile HTML, CSS, Javascript, Typescript, React, React Native, Vue

Game Dev Unity, OpenGL

2020 - 2021

Data Jupyter Notebook, MySQL, MATLAB, JSON

Design UI/UX, Adobe Creative Suite, Figma, Wireframing, Fusion360, Blender